

NOVEMBER/DECEMBER 2023

**CMB31/FMB31 — IMMUNOLOGY**

Time : Three hours

Maximum : 75 marks



**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

1. What is Innate immunity?
2. What are natural killer cells?
3. Define a stem cell.
4. Expand GALT and MALT.
5. Define hapten.
6. What is an adjuvant?
7. What are complements?
8. Define MHC.
9. Give any two examples for allergens.
10. What is meant by serum sickness?



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write a short note on the history and scope of immunology.

Or

- (b) List the differences between active and passive immunity.

12. (a) Summarize the importance of granulocytic cells.

Or

- (b) List out the characteristics of T cells and B cells.

13. (a) Write a note on the types of antigen.

Or

- (b) Illustrate with a neat diagram the structure of an immunoglobulin.

14. (a) Discuss in brief on the constitution and importance of MHC.

Or

- (b) Describe the process of antigen processing and presentation.



15. (a) What is perinatal screening? Why and how it is done?

Or

- (b) Comment on Montoux test.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE of the following.

16. Explain the mechanism of innate immunity.
17. Describe the structure and function of (a) Thymus (b) spleen.
18. Discuss the factors influencing antigenicity.
19. Draw a flow chart on the activation of complement through classical pathway and explain it.
20. Explain the different blood group systems.